RELAY SPECIFICATION

继电器规格书

(File No.: 06319 / Version: 00 / Issued Date: 11th, Apr. 2008)

Product Description (品名)

Part Number (泰科编码)

Customer (客户)

OJ-SH-112LMH,000

9-1419128-8

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REFERENCE ONLY NOT FOR FORMAL RELEASE



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SAFETY STANDARD 安全标准

UL certificate E82292

UL 证书

TUV certificate R 50036161

TUV 证书

VDE certificate 1146900-4940-0003

VDE 证书

CSA certificate 1290802 (LR 48471-43)

CSA 证书

COIL CHARACTERISTICS 线圈特性

Coil resistance 720 \pm 10% Ω

线圈电阻

Rated voltage 12VDC

额定电压

Max. allowable voltage 15.6VDC

最大允许电压

Rated power 200mW

额定功率

Operate voltage ≤9VDC

吸合电压

Release voltage ≥1.2VDC

释放电压

CONTACT RATINGS 触点规格

Contact configuration 1 Form A (SPST-NO)

触点结构

Contact material AgCdO

触点材料

Initial contact resistance ≤100 mΩ at 6VDC/1A

初始接触电阻

Rated switching voltage (Normally Open) 250VAC/30VDC

额定切换电压(常开触点)

Rated switching voltage (Normally Close) -

额定切换电压(常闭触点)

Rated current (Normally Open) 8A

额定电流(常开触点)

Rated current (Normally Close) -

额定电流(常闭触点)

Rated switching power (Normally Open) 2000VA/240W

额定切换功率(常开触点)



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Rated switching power (Normally Close)

额定切换功率(常闭触点)

Minimum applicable load (Normally Open) 5VDC 100mA

最小使用负载(常开触点)

Minimum applicable load (Normally Close)

最小使用负载(常闭触点)

Operate time≤15ms, excluding bounce time吸合时间≤15ms, 不含触点抖动时间Release time≤4ms, excluding bounce time

释放时间 ≤4ms,不含触点抖动时间

Mechanical endurance 10 Million cycles, 300 cycles/minute

机械寿命

Electrical endurance (resistive load) 8A, 250VAC, 100k cycles, 10cycles/minute

电气寿命 8A, 30VDC, 100k cycles, 10cycles/minute

INSULATION PERFORMANCE 绝缘性能

Dielectric strength 750VAC 1minute, between open contacts

介电强度 750VAC 1 分钟(断开触点间)

4000VAC 1minute, between coil to contacts

4000VAC 1 分钟(线圈与触点间)

Impulse withstand voltage 10 KV (1.2/50 µ s), between coil to contacts

耐浪涌电压 10 KV (线圈与触点间)

Insulation resistance $1000M\Omega$ at 500VDC, between open contacts and coil

-30~85℃

绝缘电阻 to contacts

1000MΩ(断开触点间及线圈与触点间)

Insulation systems (UL) Class A (105)

绝缘系统

Insulation type Basic insulation

绝缘类型 基本绝缘

ENVIRONMENT PERFORMANCE 环境性能

Category of protection (IEC61810-1) RT III (Wash tight)

工作温度

Operating temperature

Operating humidity 20~85%RH

工作湿度

Storage temperature $-30\sim85^{\circ}$ C

储藏温度

Storage humidity 20~85%RH

储藏湿度



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Vibration resistance 耐振动

Shock resistance 耐冲击 (1) Capability to function during vibration

No opening or closing of any closed or opened contact circuit respectively exceed 1ms when the relay is subjected to vibration of 10~55Hz and 1.5mm dual amplitude in each of three mutually perpendicular axes for 10 minutes respectively, while it is in operate condition and in release condition.

抗误动作能力

动作/释放状态下,继电器在三个轴向耐受频率 10~55Hz及振幅1.5mm的振动各10分钟,触点误动作 不超过1毫秒。

(2) Capability to function after vibration

No trouble on structure and characteristics after the relay is subjected to vibration of 10~55Hz and 1.5mm dual amplitude in each of three mutually perpendicular axes for 2 hours respectively.

振动耐久能力

继电器在三个轴向耐受振幅1.5mm及频率10~55Hz的振动各2小时,产品构造和性能无异常发生。

(1) Capability to function during shock

No opening or closing of any closed or opened contact circuit respectively exceed 1ms when the relay is subjected to shock of 98.1m/s² for 11ms in both directions of each of three mutually perpendicular axes for 3 times respectively, while it is in operate condition and in release condition.

抗误动作能力

动作/释放状态下,继电器在三轴六方向耐受加速度 98.1m/s²及作用时间11毫秒的冲击各3次,触点误动作 不超过1毫秒。

(2) Capability to function after shock

No trouble on structure and characteristics after the relay is subjected to shock of 981m/s² for 6ms in both directions of each of three mutually perpendicular axes for 3 times respectively.

冲击耐久能力

继电器在三轴六方向耐受加速度981m/s²及作用时间6



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Cold resistance

耐低温

Thermal resistance

耐高温

Humidity resistance

耐湿度

Thermal shock resistance

耐冷热冲击

Terminal robustness

引出端强度

MARKING 产品标识

Position of marking

标识位置

Cover color

外壳颜色

Ink color

字体颜色

毫秒的冲击各3次,产品构造和性能无异常发生。

No trouble on structure and characteristics after placed at -40°C for 240 hours and 2 hours recovery in standard atmospheric conditions.

-40℃中放置240小时并在标准大气条件中恢复2小时后继电器构造和特性无异常。

No trouble on structure and characteristics after placed at $85\,^{\circ}$ C for 240 hours and 2 hours recovery in standard atmospheric conditions.

85℃中放置 **240** 小时并在标准大气条件中恢复 **2** 小时后继电器构造和特性无异常。

No trouble on structure and characteristics after placed at 40°C&95%RH for 240 hours and 2 hours recovery in standard atmospheric conditions.

40℃及**95%**相对湿度中放置**240**小时并在标准大气条件中恢复**2**小时后继电器构造和特性无异常。

No trouble on structure and characteristics after endure 100 cycles of cyclic temperature and 2 hours recovery in standard atmospheric conditions, which the temperature cycle consists of -40 $^{\circ}$ C for 0.5 hour and 85 $^{\circ}$ C for 0.5 hour.

-40℃和85℃中各放置0.5小时为一个温度周期,循环 100次,在标准大气条件中恢复2小时后继电器构造和 特性无异常。

No trouble on structure and characteristics after endure axial pushing/pulling force of 5N for 10 seconds.

继电器引出端承受 5 牛顿的轴向压入、拨出力,延时 10 秒,构造和性能无异常。

Side of relay cover

外壳侧面

Blue

蓝色

White

白色



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Agency approval mark

安规机构标识

Trade mark

商标

MOUNTING INFORMANTION 安装信息

Solderability

可焊性

Resistance to soldering heat

耐焊接热

Standard direction

标准方向

Terminals assignment (PCB layout)

引出端脚位

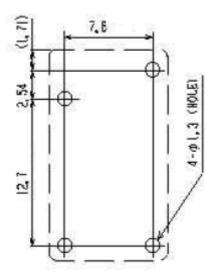
UL, TUV, VDE, CSA

OEG

260±5°C for 5±0.5 seconds

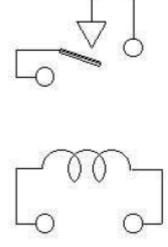
260±5℃ for 10±1 seconds 350±10℃ for 3.5±0.5 seconds Relay PCB terminals downward 继电器 PCB 型引出端朝下 Refer to below drawing

请参考下图



Relay outline dimensions (mm)

继电器外形尺寸

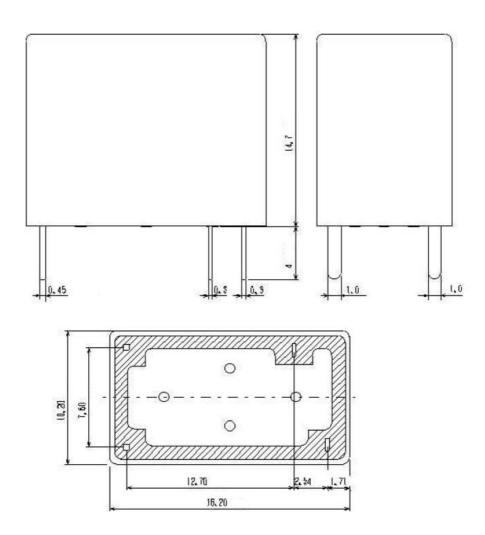


Refer to below drawing

请参考下图







ENGINEERING NOTES 注意事项

- # Unless otherwise explicitly stated, the standard environment conditions for measurement or testing are listed as followings:
- # 除非特别申明, 测量或试验的标准环境条件如下:
- (1) Ambient temperature is 23±5°C;

环境温度为 23+5℃;

(2) Atmospheric pressure is 96±10% kPa;

大气压力为 96+10% kPa;

(3) Relative humidity is 50%±25% RH.

相对湿度为 50%+25% RH.

- # About wash tight (completely sealed) relay with a vent provision, then vent should be opened after soldering and cleaning, the listed electrical endurance ratings assume that the relay is ventilated.
- # 在使用敝司完全封闭型继电器时,请在焊锡和清洗工序之后,打开继电器上的通气孔,方可以达到本规格书中所保证的电气寿命。